

IQ Modulator Board

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IQ Modulation

Any passband signal $s_p(t)$ can be written as

$$s_p(t) = \sqrt{2}s_i(t) \cos(2\pi f_c t) - \sqrt{2}s_q(t) \sin(2\pi f_c t) \quad (1)$$

where,

$$s(t) = s_i(t) + js_q(t) \quad (2)$$